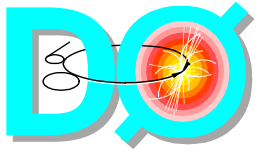


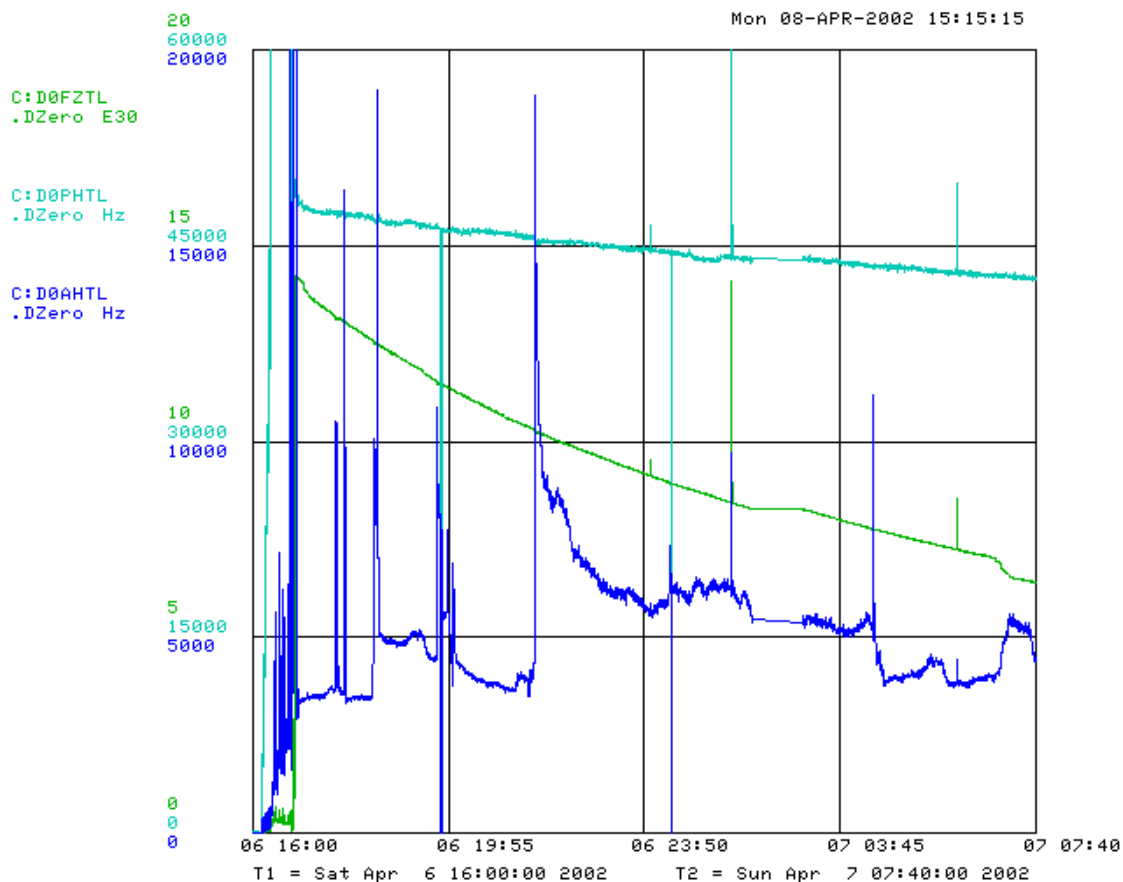
D0 Status: 04/01-04/08

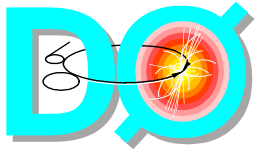
- ◆ Week integrated luminosity
  - $1.7\text{pb}^{-1}$  delivered
  - $1.5\text{pb}^{-1}$  utilized (88%)
  - $1.1\text{pb}^{-1}$  global runs
- ◆ Data collection
  - ▲ global data collections most of the time
    - full detector in readout
    - physics trigger menu: v5.01
  - ▲ major sources of downtime last week
    - new DAQ system debugging/learning curve
    - readout crates problems: muon and CFT
- ◆ Data reconstruction
  - ▲ processing global runs data with reconstruction version 10.15.01 within about a week
  - ▲ currently farms capabilities are ~factor of two above our rate to tape



# Beam Conditions

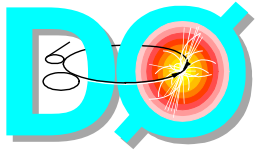
- Silicon detector irradiation during "Step 13"
  - ◆ since last week Step 13 modifications typical dose is down to less than 4-5 rads per shot setup
  - ◆ total Run II silicon integrated dose is ~10krads
  - ◆ about March 30th event: total DO dose is 0.06rads spread over ~5 minutes
- Proton and antiproton halo
  - ◆ proton halo is stable around 20-40kHz
  - ◆ antiproton halo is in the range 2-4kHz, with some stores having larger halo which depends upon MCR activities





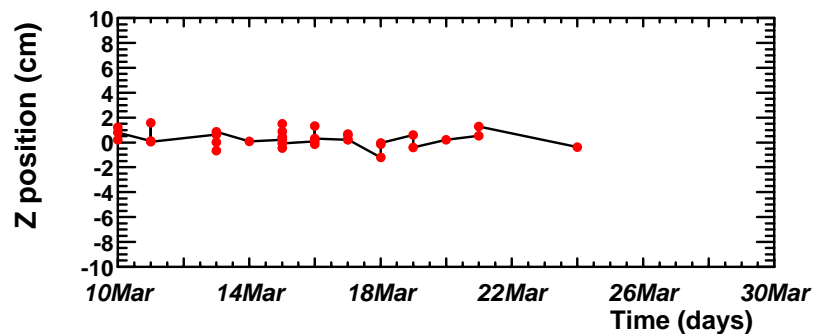
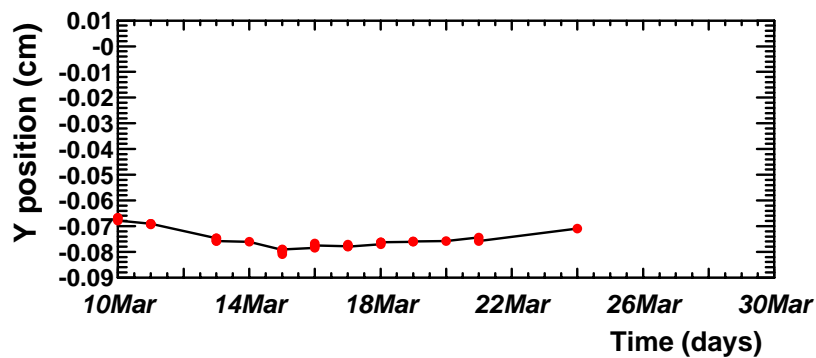
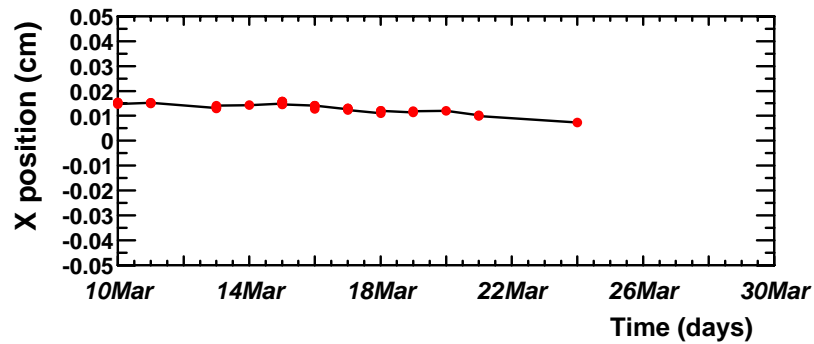
# DO Detector Status

- Luminosity detector
  - ◆ stable operation
- Silicon detector
  - ◆ working on reduction of HV turn OFF time to increase operating efficiency - down to 5 minutes
  - ◆ developed cooling water leak starting Friday, 03/29 on the East half of the silicon detector electronics
    - ▲ drip detectors trips
    - ▲ ~1 gallon per day DCW addition
    - ▲ fast water pressure drop when the line is valved off
  - ◆ 1/2 of silicon is turned off since 04/04
    - ▲ stop loosing DCW water
  - ◆ have to open detector to find/fix the leak
    - ▲ starting early morning Thursday 04/11
    - ▲ depending upon severity of problem will be ready for search and secure:
      - 0:00 Friday, if fix does not require power supplies work
      - 12:00 Friday, if power supplies work is needed

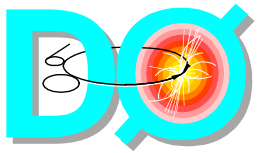


## Beam Position

- Beam position in the detector

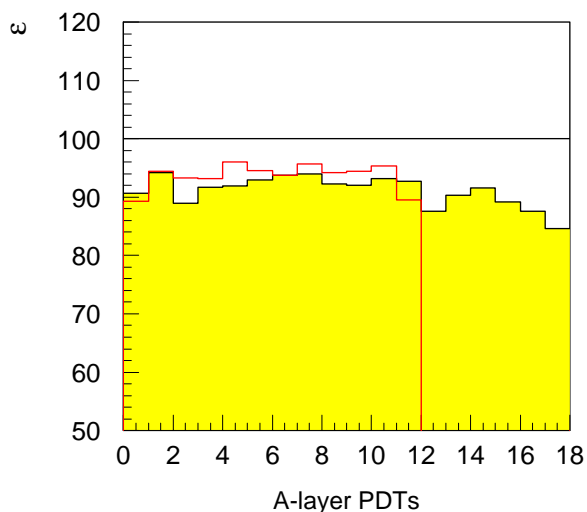


- ◆ high stability over last month and since 2001 October shutdown
- ◆ typical sigma of interaction region Z distribution is 25-30cm

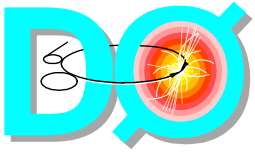


## DØ Status

- Fiber tracker
  - ◆ installation and upgrade of AFE boards continue
  - ◆ stable operation during data taking with some time devoted to CFT commissioning
- Calorimeter
  - ◆ stable operation
- Muon system
  - ◆ no serious problems
    - ▲ replacing failed VME LVPS during Thursday access
  - ◆ central drift chamber efficiencies measured

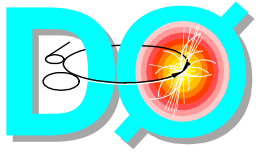


- Forward Proton Detector
  - ◆ routine pots insertion during stores



## "Summer" 2002 Shutdown

- D0 preferences
  - ◆ not schedule "2 weeks" shutdown during second week of July - D0 Workshop in Oklahoma
  - ◆ fix start date (at least) as soon as reasonably possible



## Run Plan

- Collect global runs today and tomorrow
  - ◆ rate to L3 trigger farm of  $\sim 80\text{Hz}$
  - ◆ rate to tape  $\sim 25\text{Hz}$
- Perform DAQ system upgrades/tests during studies period
- Fix silicon electronics cooling water leak during Thursday access and power full silicon up
- Continue physics data taking with full detector in readout starting Friday, 4/12